



Attorney Docket No.: 10541-014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Group Art Unit: 2662

Examiner: Dmitry Levitan

Inventors: Dana B. Fecher, et al.

Serial No.: 10/036,922

Filing Date: December 21, 2001

Title: USE OF PHONE-UART MULTIPLEXER  
TO CREATE LOW SOFTWARE  
OVERHEAD EXTERNAL ACCESS TO  
INTERNAL DATA MODEM WITH  
WIRELESS COMMUNICATIONS AND  
PHONE

**DECLARATION OF  
DANA B. FECHER  
UNDER 37 C.F.R. §1.131**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Washington, DC 20231

Dear Sir:

Dana B. Fecher hereby declares that:

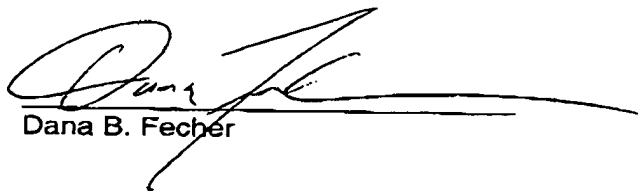
1. I am an inventor of the invention as claimed and described in the above-identified application.
2. I conceived said invention in the United States prior to April 24, 2001, as evidenced by the date in the "Creation Date" section of the Invention Disclosure form, the written description in the "Attachments" section of the Invention Disclosure form, and drawings included with the Invention Disclosure form. The Invention Disclosure form being attached hereto as Exhibit A.
3. That said invention was diligently worked on from a date prior to April 24, 2001 until the filing date of the above referenced application.

U.S. Serial No.: 10/054,312

4. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the above-identified application, and any patent issuing thereon or any patent to which this declaration is direction.

Dated: \_\_\_\_\_

1/10/06

  
Dana B. Fecher



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## Online Invention Disclosure: View Invention Disclosure

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**Inv. Discl. Docket No:** 199-1712  
**Creation Date:** 11/4/99  
**Author:** Search is under construction.  
**Approval to submit was given by:** DFECHER: 01-NOV-99 GMILNE2: GWILLIA8: 29-OCT-99

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### Section 1: INVENTION DESCRIPTION

**Title of Invention:** USE OF PHONE-UART MULTIPLEXER TO CREATE LOW SOFTWARE OVERHEAD EXTERNAL ACCESS TO INTERNAL DATA MODEM WITH WIRELESS COMMUNICATIONS AND PHONE

**Patent Evaluation Committee:** VNTO

**CPSC Code:** 19.08.00

**Originating Country Code:** US

**Internal Reference Number:** 199-1712

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### Section 2: PROBLEM & SOLUTION

**Description or Comments:** SEE ATTACHMENT

**Attachment:** See Section:9 ATTACHMENTS

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### Section 3: PRIOR ART

**Description or Comments:** None known of

**Attachment:** See Section:9 ATTACHMENTS

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### Section 4: NEW TECHNOLOGY

**Description or Comments:** The use of a hardware circuit to automatically steer the internal phone modem communications channel from the

internal host computer to an external client when the presence of the client is detected. This permits access to an internal resource without complex software routing and attendant degradation of host performance, and permits an external client to use its native software to communicate directly with the internal phone modem without host involvement.

**Attachment:** See Section:9 ATTACHMENTS

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**Section 5: DETAILED DESCRIPTION**

**Description or** see attachment

**Comments:**

**Attachment:** See Section:9 ATTACHMENTS

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**Section 6: DATES**

**Record(s) of  
Completion:**

**Date of Completion:**

**First Production Use:  
[Model and Date]**

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**Section 7: CATEGORY QUESTIONS**

**Invention Category:**

Electrical

Category Questions do not exist or not answered.

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**Section 8: MISCELLANEOUS ITEMS**

**Is it a Government Contract?:**

No

**If yes, Government Contract Number:**

**Identify a government agreement, partnership, consortium, or other  
company involved with conception or first building of the invention:**

none

**If disclosed to non-Company personnel, identify recipient and date:**

none

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**Section 9: ATTACHMENTS**

<b>File Name</b> Click on File Name to view and print it.	<b>Description</b>
<a href="#">4481Problem And Solution.pdf</a>	Your original attachment file : phonemuxinvention.pdf was renamed.

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**Section 10: INVENTORSHIP**

**CDS or Other Id:**

**Last Name:**

DFECHER

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Milne

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**Employment Status:**

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**Fax:**

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**First Name:**

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**Middle Name:**

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**Employment Category:**

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**Employment Status:**

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**Job Title:**

PRODUCT DESIGN ENG. A

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1 [REDACTED] 3

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**Department:**

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**Payroll Location Code:**

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**Office Address:**

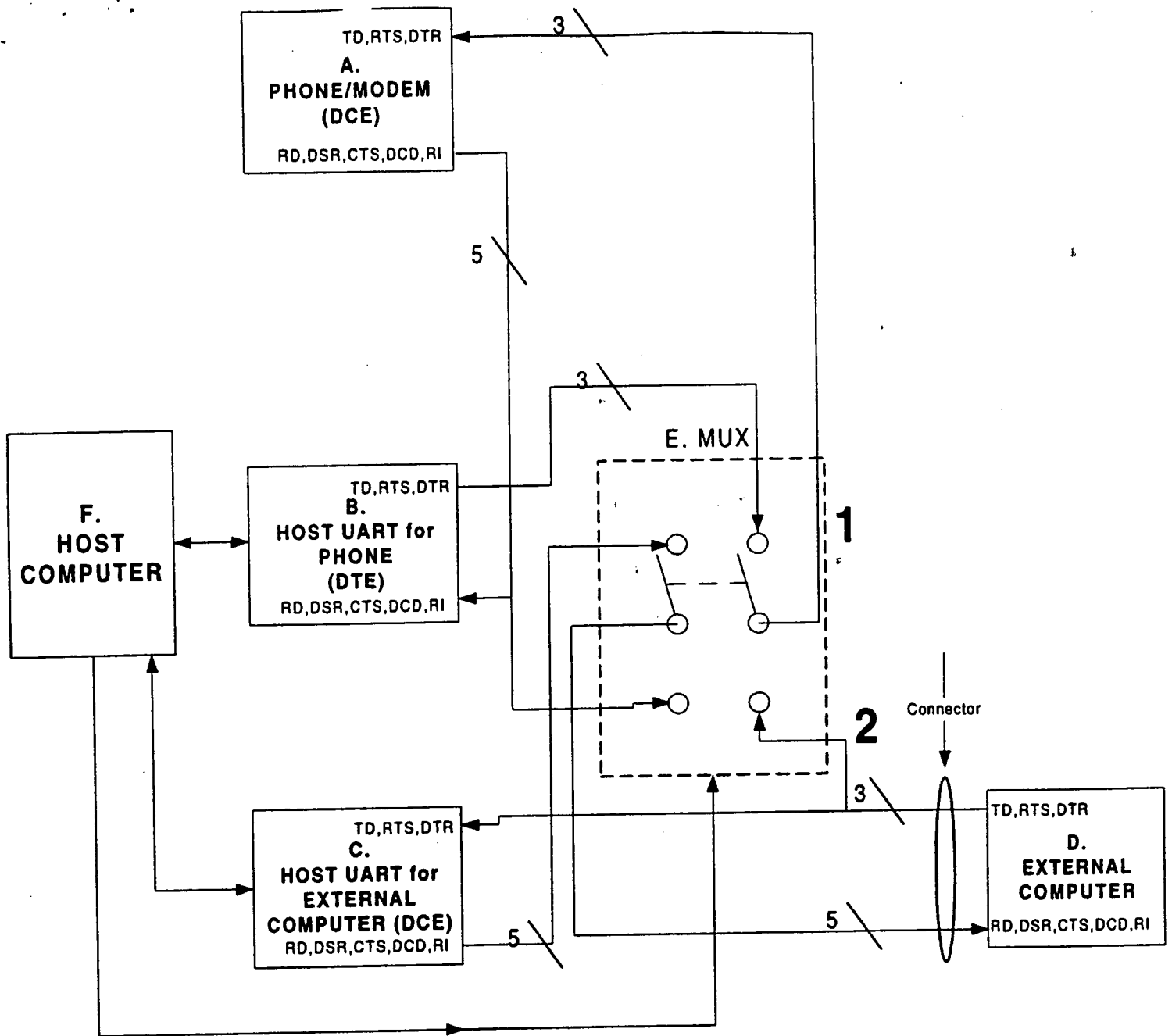
DTC 62E28

**Maldrop:****Supervisor's CDS Id:**

[REDACTED]

**Manager's CDS Id:**

[REDACTED]



Since Host External Computer UART (C) is always connected to DTR of External Computer (D), when DTR is asserted, Host Computer (E) will switch the MUX (E) to position 2, connecting the Phone/Modem (A) to the External Computer (D). At any time the Host Computer can switch the MUX (E) to position 1, connecting the Phone/Modem (A) to the Host UART for Phone (B) and connecting the External Computer (D) to the Host UART for External Computer (C). For example, after the External Computer (D) is connected and asserts DTR, if it sends a special sequence of characters, the Host Computer (F), since it is always receiving characters sent out by the External Computer (D), can recognize the special sequence and switch the MUX to position 1.

When the External Computer negates DTR or is disconnected, the Host Computer (F) will sense this and switch the MUX (E) to position 1, connecting the Host UART for Phone (B) to the Phone/Modem (A).